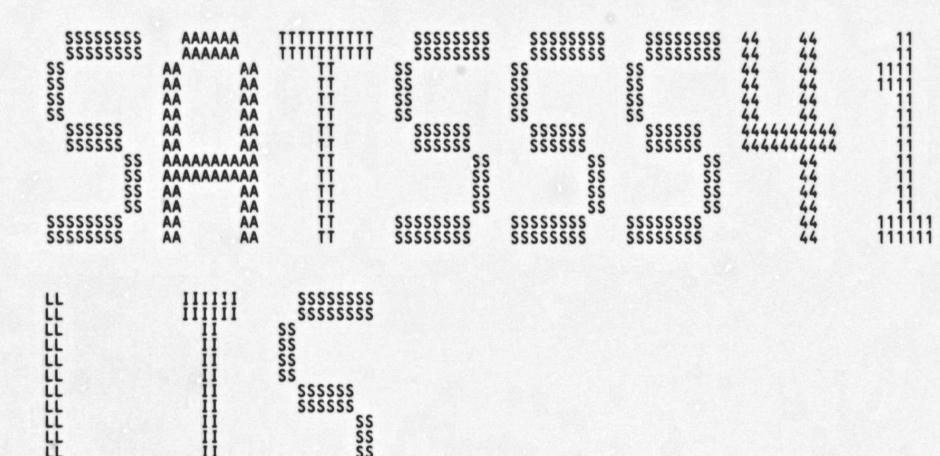
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UUU	UUU	EEEEEEEEEEEE	111111111111111111111111111111111111111	РРГРРРРРРРР	SSSSSSSSSSSS	YYY	YYY
UUU	UUU	EEE	111	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	III	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	111	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEEEEEEEEE	TTT	PPPPPPPPPPP	SSSSSSSS	YYY	
UUU	UUU	EEEEEEEEEE	111	PPPPPPPPPPP	SSSSSSSS	YYY	
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UUU	UUU	ÈÈÈ	iii	PPP	333	YYY	
UUU	UUU	ĒĒĒ	iii	PPP	\$\$\$	YYY	
		EEEEEEEEEEEEE					
UUUUUUUUU			îii	PPP	22222222222	YYY	
UUUUUUUUU		EEEEEEEEEEEEE	ĨĬĨ	PPP	SSSSSSSSSSS	YYY	
UUUUUUUUU	UUUUUU	EEEEEEEEEEEE	TTT	PPP	SSSSSSSSSS	YYY	



SA

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Page

SA

.TITLE SATSSS41 SATS SYSTEM SERVICE TESTS SEXIT (SUCC S.C.)

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FACILITY:

SYSTST (SATS SYSTEM SERVICE TESTS)

ABSTRACT:

THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS41 TO TEST SUCCESSFUL OPERATION OF THE SEXIT SYSTEM SERVICE. THE SERVICE IS INVOKED UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY CHECKING FOR AN SS\$ NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS AND EXPECTED FUNCTIONALITY PERFORMED.

ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE, DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.

AUTHOR: THOMAS L. CAFARELLA,

CREATION DATE: OCT, 1977

MODIFIED BY:

V03-001 LDJ0001 Larry D. Jones, 23-Jun-1983 Removed quota list to use default sysboot quota values.

44444444555

```
SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1
          .SBTTL DECLARATIONS
                           55555556666666678901
                                     INCLUDE FILES:
                                                                                                                       PRIVILEGE BIT DEFINITIONS
PROCESS HEADER OFFSETS
PROCESS QUOTA CODES
PCB LABELS
DEVICE INFO BLOCK OFFSETS
                                                 SPRVDEF
SPHDDEF
SPQLDEF
SPCBDEF
SDIBDEF
```

MACROS:

EQUATED SYMBOLS:

OWN STORAGE:

SAT

```
SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1
 00000000
0000
0009
0019
0039
0039
0051
0065
0084
0084
0084
                          .PSECT RODATA, RD, NOWRT, NOEXE, LONG
74 TEST_MOD_NAME:: STRING C, <SATS$S41> ; TEST MODULE NAME
75 TEST_MOD_NAME_D: STRING I, <SATS$S41> ; TEST MODULE NAME DESCRIPTOR
76 MSG1_INP_CTL: STRING I, < SSEXI!4ZW: CONDITIONS:>
                                                                                                                      FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR
                                MSG3_ERR_CTL::
                                                               STRING
                                                                                I,< *SSEXI!4ZW:
                                                                                                                   !AS>
                                                                              I. <SATSSS41 CRE> : PROCESS & MBX NAME
I. <SYSTST$RES:SATSUT09.EXE>
: IMAGE NAME FOR CREATED PROCESS
CPULM.0 : INFINITE CPU
BYTLM.512 : BYTE LIMIT FOR BUFFERED I/O
FILLM.2 : OPEN FILE COUNT LIMIT
PAGE QUOTA
SUBPROCESS QUOTA
ENTRY QUOTA
                                                                                                                   ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR
; PROCESS & MBX NAME FOR CREATED PROCESS
                          CRENAME:
                                 IMAGNAM:
                                                                  STRING
                                 :QUOTALIST:
                                                                  SQUOTA
                                                                  SQUOTA
                                                                  SQUOTA
                                                                  SQUOTA
                                                                  SQUOTA
                                                                                                                       TIMER QUEUE ENTRY QUOTA
DEFINES END OF LIST
                                                                  SQUOTA
                                                                  SQUOTA
                                                                                 LISTEND
```

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Phi Col Pai Syl Pai Syl Psi Cri Asi

As: 1h: 39: 1h: 51: 42

Mai - \$ - \$ 10 86

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SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 Page 4 DECLARATIONS SexIT (SUCC S 16-SEP-1984 04:31:16 EUETPSY.SRCJSATSSS41.MAR;1 (1)

(1)

SATSSS41 V04-000

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SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 Page CONDITION TABLES SEXIT (SUCC S 16-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1
                      102
103
104
105
106
107
108
109
110
                                      .SBTTL CONDITION TABLES
                                      **** CONDITION TABLES FOR EXIT SYSTEM SERVICE ****
                                                COND
00000000
000001A4
000001A8
000001AC
                                                      .LONG
.BLKL
.BLKL
                                                                                      PSEUDO-UIC
UIC
UIC
                                                      .BLKL
                                                                                    : UIC
                                      COND
                                                2, NULL
                                                3. NULL
                                      COND
                                      COND
                                                4, NULL
                                      COND
                                                 5, NULL
        00000000
                                      .PSECT SATSSS41,RD,WRT,EXE
```

```
SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 TM_SETUP, TM_CLEANUP 5-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1
SATSSS41
V04-000
                                                                                          .SBTTL TM_SETUP, TM_CLEANUP
                                                                       1289
1301
1334
13567
                                                                               FUNCTIONAL DESCRIPTION:
                                                                                TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
                                                                                TEST MODULE EXECUTION.
                                                                                CALLING SEQUENCE:
                                                                                         BSBW TM_SETUP
                                                                                                                   BSBW TM_CLEANUP
                                                                                INPUT PARAMETERS:
                                                                                          NONE
                                                                                IMPLICIT INPUTS:
                                                                                          NONE
                                                                                OUTPUT PARAMETERS:
                                                                      1489
150
151
152
153
155
156
157
1589
                                                                                          NONE
                                                                                IMPLICIT OUTPUTS:
                                                                                         TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED; ALL PRIVILEGES ACQUIRED.
                                                                                COMPLETION CODES:
                                                                                         EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                                                                      160
161
162
163
164
165
166
                                                                                SIDE EFFECTS:
                                                                                         SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.
                                                                      168
169
170
171
172
173
174
175
176
                                                                             TM_SETUP::
                                                                                                      R2
R3
R4
R5
                                                                                                                                                INITIALIZE .. CONDITION
                                                     0444400E0
                                                                                                                                                 .... TABLE
                                                                                                                                                    .... INDEX
                                                                                          CLRL
                                                                                                                                                              REGISTERS
                                                                                                      REGISTERS

MOD_MSG_PRINT ; PRINT TEST MODULE BEGIN MSG
TEST_MOD_SUCC.TMD_ADDR ; ASSUME END MSG WILL SHOW SUCCESS
#SUCCESS.#0,#3,MOD_MSG_CODE ; ADJUST STATUS CODE FOR SUCCESS
                                                                                          BSBW
        00000000 EF
                                                                                          MOVAL
                      00
                              00000000 BF
              03
                                                                                          INSV
```

TO.5\$, KRNL ; KERNEL MODE TO ACCESS PHD GET PROCESS HEADER ADDRESS PHD\$Q PRIVMSK(R9), PRIVMASK; GET PRIV MASK ADDRESS FROM.5\$; BACK TO USER MODE GET ALL PRIVILEGES

DO

59 00000000'9F 69

MODE

MOVAL MOVAL MODE PRIV

SATSSS41 V04-000	SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 Page 7 TM_SETUP, TM_CLEANUP 5-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1 (1)	Constitution of the last of th
	0077 183 \$SETPRN_S TEST_MOD_NAME_D ; SET PROCESS NAME 0084 184 SS_CHECK NORMAL ; CHECK STATUS CODE RETURNED FROM SETPRN 0082 185 ; O082 186 ; THE FOLLOWING CODE ESTABLISHES UIC'S IN THE CONDITION 1 TABLE	-
	0082 187 :	-
59 00000000°9F 59 00BC C9	00B2 188 MODE TO,20\$,KRNL ; KERNEL MODE TO ACCESS PCB DO 00D5 189 MOVL @#\$CH\$GL_CURPCB,R9 ; GET CURRENT PCB ADDRESS DO 00DC 190 MOVL PCB\$L_UIC(R9),R9 ; PICK UP UIC FROM PCB 00E1 191 MODE FROM,ZO\$; AND GET BACK TO USER MODE	
	00E2 192; 00E2 193; R9 NOW CONTAINS 'MY' UIC 00E2 194;	Name and Address of
59 00010000 8F 0000019C'EF4A	9A 00E2 195 MOVZBL #1,R10; GET COND1 TABLE INDEX NUMBER INTO A REG C1 00E5 196 ADDL3 #^X10000,R9,COND1_E[R10]; PUT DIFF GROUP UIC INTO 2ND TABLE ELT	A AMERICAN PROPERTY.
0000019C'EF4A 59 0000019C'EF4A 59 01	D6 00F2 197 D0 00F4 198 D6 00FC 199 C1 00FE 200 O107 201 O107 202 O12C 203 INCL R10 R10 R9,COND1_E[R10] FOINT TO 3RD COND1 TABLE ELEMENT FOINT TO 4TH COND1 TABLE ELEMENT FOINT TO 4TH COND1 TABLE ELEMENT FOINT TO 4TH COND1 TABLE ELEMENT FOINT TO 4TH COND1 TABLE ELEMENT FOINT TO 4TH COND1 TABLE ELEMENT FOINT TO 3RD COND1 TABLE ELEMENT FOINT TO 3RD COND1 TABLE ELEMENT FOINT TO 3RD COND1 TABLE ELEMENT FOINT TO 3RD COND1 TABLE ELEMENT FOINT TO 3RD COND1 TABLE ELEMENT FOINT TO 3RD COND1 TABLE ELEMENT FOINT TO 3RD COND1 TABLE ELEMENT FOINT TO 3RD COND1 TABLE ELEMENT FOINT TO 3RD COND1 TABLE ELEMENT FOINT TO 4TH COND1 TABLE EL	CONTRACTOR CONTRACTOR (CA.)
	C1 OOFE 200 O107 201 O107 201 O107 202 O107 202 O12C 203 O15A 204 O15A 205 O174 206 O174 206 SCHECK NORMAL O174 206 SCHECK NORMAL O174 207 O174 207 O174 207 O178 207 O179 SS CHECK NORMAL O179 SS CHE	-
	015A 204 \$GETCHN_S CHAN=MBXCHAN, - ; GET CHAN INFO (UNIT NUMBER) 015A 205 PRIBUF=MBXCHANINFO	
00000088'EF 00000020'EF	0174 206 SS_CHECK_NORMAL ; CHECK_NORMAL COMPLETION 3C 01A2 207 MOVZWL MBXCHANINFO+8+DIB\$W_UNIT, MBXUNIT ; SAVE MAILBOX_UNIT_NUMBER 05 01AD 208 RSB ; RETURN TO MAIN ROUTINE 01AE 209 TM_CLEANUP:: 01AE 210 \$DELMBX_S MBXCHAN ; DELETE TERMINATION MAILBOX	STATE STATE
FE41'	01AE 210 *DELMBX_S MBXCHAN ; DELETE TERMINATION MAILBOX 30 01BC 211 BSBW MOD_MSG_PRINT ; PRINT TEST MODULE END MSG 05 01BF 212 RSB ; RETURN TO MAIN ROUTINE	Company of the last of the las

```
SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro VO4-00 CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1
                                                 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
                                    FUNCTIONAL DESCRIPTION:
                                   CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON POUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES, ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
                                    CALLING SEQUENCE:
                                                BSBW CONDX BSBW CONDX_CLEANUP WHERE X = 1,2,3,4,5
                                    INPUT PARAMETERS:
                                                CONFLICT = 0
                                    IMPLICIT INPUTS:
                                                R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
                                    OUTPUT PARAMETERS:
                                                 CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICY DETECTED.
                                    IMPLICIT OUTPUTS:
                                                R2,3,4,5,6 PRESERVED
                        250
                                    COMPLETION CODES:
                                                 NONE
                                    SIDE EFFECTS:
                                                 NONE
                        260
                        2623
2645
2667
2667
2689
270
                                COND1::
                                                                                                                  ; RETURN TO MAIN ROUTINE
                                COND1_CLEANUP::
          0101
  05
         0101
                                                RSB
                                                                                                                  : RETURN TO MAIN ROUTINE
                                COND2::
  05
                                                                                                                  : RETURN TO MAIN ROUTINE
                                COND2_CLEANUP::
  05
                                                 RSB
                                                                                                                  : RETURN TO MAIN ROUTINE
```

VO

SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 Page 9 CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1 (1

SAT

01C4 271 COND3::
COND3::
COND3::
COND3_CLEANUP::
COND4::
COND4::
COND4::
COND4::
COND4_CLEANUP::
COND4_CLEANUP::
COND5::
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SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 FORM_CONDS 5-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1
SATSSS41
V04-000
                                                                                               .SBTTL FORM_CONDS
                                                                                    FUNCTIONAL DESCRIPTION:
                                                                                      THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                                                                                     CALLING SEQUENCE:
                                                                                              BSBW FORM_CONDS
                                                                                     INPUT PARAMETERS:
                                                                                               NONE
                                                                                     IMPLICIT INPUTS:
                                                                                              R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX_T - TITLE TEXT FOR CONDX TABLE

CONDX_TAB - ELEMENT TEXT FOR CONDX TABLE

CONDX_C - CONTEXT OF THE CONDX TABLE

CONDX_E - DATA ELEMENTS OF THE CONDX TABLE
                                                                                    OUTPUT PARAMETERS:
                                                                                              NONE
                                                                                    IMPLICIT OUTPUTS:
                                                                                              NONE
                                                                                    COMPLETION CODES:
                                                                                              NONE
                                                                                    SIDE EFFECTS:
```

00000000'EF

```
FORM_CONDS::

$FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
FORMAT CONDITIONS HEADER MSG

BSBW OUTPUT_MSG FORMAT CONDITIONS HEADER MSG

CMPB #COND1_C,#NULL IS CONDITION 1 NULL?
```

FE14' 30 01E9 332

14 00 91 01EC 333

OOBF 31 01F1 335

OOBF 31 01F1 335

OFF 00000110'EF DE 01F4 337

OO000011E'EF42 DC 01FF 338

OO000000'EF 00 90 020B 339

OO000000'EF 00 90 020B 339

OO000000'EF 00 90 020B 339

OO000000'EF 00 90 020B 339

OO000000'EF 00 90 020B 339

OO000000'EF 00 90 020B 339

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OO0000000'EF 00 90 020B 339

OO000000000'EF 00 90 020B 339

OO00000000000'EF 00 90 020B 339

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SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 FORM_CONDS 5-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1
SATSSS41
V04-000
                                                                                                                         WRITE_MSG2
#CONDZ_C,#NULL
20$
                                                              30
91
12
31
                                                                                                                                                                       : FORMAT AND WRITE CONDITION 1 MSG
: IS CONDITION 2 NULL ?
                                                                                                           CMPB
                                                                                                                                                                       : NO -- CONTINUE
                                                                                                           BNEQU
                                                 0096
                                                                                                                          FORM_CONDSX
                                                                                                           BRW
                                                                                                                                                                        : YES -- SUBROUTINE IS FINISHED
                                                                                           20$:
                                                                                                                         COND2_T,MSG_A
COND2_TABER3],MSG_B

#COND2_C,MSG_CTXT

COND2_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO

#COND2_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO

COND2_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO

COND2_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO

COND2_C,MSG_CTXT

SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO

CONTINUE

SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO

FORMAT AND WRITE CONDITION 2 MSG

FORMAT AND WRITE CONDITION 2 MSG

FORMAT AND WRITE CONDITION 2 MSG

FORMAT AND WRITE CONDITION 2 MSG

FORMAT AND WRITE CONDITION 2 MSG
                          EF 000001AC'EF
000001AC'EF43
00000000'EF 14
                                                              DE
00
90
         00000000'EF
                                                                                                           MOVAL
     00000000'EF
                                                                                                           MOVL
                                                                                                           MOVB
                                                                                                           MOV VAL
                                                              30
91
12
31
                                                 FDC2
14
03
                                                                                                           CMPB
                                                                                                           BNEQU
                                                                                                                                                                           NO -- CONTINUE
                                                 006D
                                                                                                           BRW
                                                                                                                          FORM_CONDSX
                                                                                                                                                                          YES -- SUBROUTINE IS FINISHED
                                                                                                         30$:
     00000000'EF 000001AD'EF 00000000'EF 14
                                                              DE
00
90
                                                              30
91
13
                                                 FD99'
                                                              DE
DO
90
         00000000 'EF
                                   000001AE'EF
                          000001AE'EF45
00000000'EF 14
     00000000'EF
                                                              30
91
13
                                                 FD73'
                                                                      028D
0290
0292
029D
02A9
         00000000'EF
                                   000001AF 'EF
                                                              DE
                          000001AF 'EF 46
00000000 'EF 14
                                                              90
     00000000'EF
                                                                      02B0
                                                                      02B0
                                                               30
                                                 FD4D'
                                                                       02B3
                                                                                          FORM_CONDSX:
                                                              05
                                                                       C2B3
                                                                                                           RSB
                                                                                                                                                                        ; RETURN TO CALLER
```

SAT

.SBTTL VERIFY

: FUNCTIONAL DESCRIPTION:

VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE (SEXIT). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY, THROUGH THE SS CHECK MACRO); ERR EXIT SETS EFLAG TO NON-ZERO, PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER. WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED, AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.

CALLING SEQUENCE:

BSBW VERIFY

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES FOR COND TABLES 1,2,3,4,5, RESPECTIVELY. FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM FOR CONDX E.

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS, IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED ERRORS.

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

```
SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 VERIFY 5-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1
SATSSS41
V04-000
                                                                        VERIFY::
                                                 95
13
30
                            00000000 EF
                                                                                    TSTB
                                                                                                CFLAG
                                                                                                                                    ; SHOULD CONDITIONS BE PRINTED ?
                                                                                    BEQL
                                                                                                                                    : NO -- CONTINUE
                                       FFOB
                                                                                                FORM_CONDS
                                                                                                                                     : YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
                                                                        5$:
                                                                                    CLRL CREPID ; INDICATE

$CREPRC_S PIDADR=CREPID, PRCNAM=CRENAME, -

UIC=COND1_E[R2], IMAGE=IMAGNAM, -

MBXUNT=MBXUNIT;, QUOTA=QUOTALIST
                            0000010C'EF
                                                 04
                                                                                                                                       INDICATE CREATED PROCESS NOT YET CREATED
                                                                                    SS_CHECK NORMAL ; CREATE THE SUBJECT PROCESS ... AND MAKE SURE IT CREATED OK $QIOW_S CHAN=MBXCHAN, FUNC=#10$ READVBLK, - P1=MBXBUFF+8, P2=MBXBUFF
                                                                                                                                       WAIT FOR CREATED PROCESS TO SEND MAIL CHECK FOR NORMAL STATUS CODE DID CREATED PROC RETURN EXPECTED STATUS ?
                                                                                    SS CHECK NORMAL
CMPL MBXBUFF
                            00000098'EF
                                                                                                MBXBUFF+12, CREPID
       0000010C'EF
                                                                                                                                       YES -- ALL IS OK
NO -- LOAD UP EXPECTED AND
                                                                                    BEQLU
                                                                                                VERIFYX
       00000000 EF
                            0000010C'EF
00000098'EF
                                                 DO
                                                                                                CREPID, EXPV
MBXBUFF+12, RECV
                                                                                    MOVL
                                                                                                                                       ... RECEIVED VALUES, THEN EXIT
                                                 DO
                                                                                    MOVL
                                                                                    ERR_EXIT LONG, < INCORRECT EXIT STATUS CODE RETURNED IN MAILBOX>
                                                                        VERIFYX:
                                                 05
                                                                                                                                    : RETURN TO CALLER
```

SAT

.SBTTL VFY_CLEANUP

FUNCTIONAL DESCRIPTION:

VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERREXIT ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING, WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN POSSIBLY DISCOVERING A SECOND ERROR.

CALLING SEQUENCE:

BSBW VFY_CLEANUP

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM FOR CONDX E.

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

NONE

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VIA RSB) IF ERROR ENCOUNTERED.

VFY_CLEANUP::

RSB .END ; RETURN TO CALLER

```
SATS SYSTEM SERVICE TESTS SEXIT (SUCC S 16-SEP-1984 00:53:26 VAX/VMS Macro V04-00 5-SEP-1984 04:31:16 [UETPSY.SRC]SATSSS41.MAR;1
 SATSSS41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 15 (1)
  Symbol table
                                                                                                                  = 000003AE R

= 0000002E

= 0000000A

= 00000019

= 00000021

= 000000000

= 000000001

= 00000001

= 00000001

= 00000001

= 00000001
$$$$
$$$CHARS
$$$CHARS1
$$$CHARS2
                                                                                                                                                                                                                       FAO LEN
FORM_CONDS
FORM_CONDSX
IMAGNAM
                                                                                                                                                                                   04
                                                                                                                                                                                                                                                                                                                                                                                                         044424
                                                                                                                                                                                                                                                                                                                                                   *******
                                                                                                                                                                                                                                                                                                                                                  000001CA RG
000002B3 R
00000065 R
 $$$CHARS
                                                                                                                                                                                                                        IOS READVBLK
                                                                                                                                                                                                                                                                                                                                                  *******
                                                                                                                                                                                                                                                                                                                                         $$$CHARS4
                                                                                                                                                                                                                                                                                                                                                                                     G
$$$CHARS5
$$$COND_A
$$$STRINGS
                                                                                                                                                                                                                         MBXBUFF
                                                                                                                                                                                                                         MBXCHAN
                                                                                                                                                                                                                         MBXCHANINFO
 $$$STRINGS2
                                                                                                                                                                                                                         MBXUNIT
                                                                                                                                                                                                                      MOD_MSG_CODE
MOD_MSG_PRINT
MSGT_INP_CTL
MSG3_ERR_CTL
MSG_A
MSG_B
MSG_CTXT
NOTARG
$$T1
$$T2
                                                                                                                                                                                                                                                                                                                                                   ******
                                                                                                                                                                                                                                                                                                                                                   *******
                                                                                                                                                                                                                                                                                                                                                  00000019 R
00000039 RG
 BYTE
                                                                                                                                                                G
                                                                                                                                                                                   044444
 CFLAG
                                                                                                                           ******
                                                                                                                            ******
                                                                                                                                                                                                                                                                                                                                                   ******
 CHM CONT
                                                                                                                            ******
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                                                                                                                    = 00000100 RG
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                                                                                                                                                                                                                                                                                                                                           = 00000000
                                                                                                                                                                                                                                                                                                                                          = 00000014
                                                                                                                                                                                                                         NULL
                                                                                                                                                                                                                                                                                                                                                                                       G
                                                                                                                  = 00000000
000001C1 RG
0000011D RG
0000011D R
0000011E R
000001C2 RG
= 0000014
000001AC RG
                                                                                                                                                                                                                       OUTPUT MSG
                                                                                                                                                                                                                                                                                                                                                                                                          04
                                                                                                                                                                                   04333334
                                                                                                                                                                                                                                                                                                                                                   ******
                                                                                                                                                                                                                                                                                                                                           = 000000BC
                                                                                                                                                                                                                        PCV
                                                                                                                                                                                                                                                                                                                                                   *******
                                                                                                                                                                                                                         PHDSQ_PRIVMSK
                                                                                                                                                                                                                                                                                                                                           = 00000000
                                                                                                                                                                                                                         PRIVMASK
                                                                                                                                                                                                                                                                                                                                                   00000000 R
                                                                                                                                                                                                                                                                                                                                           = 00000002
                                                                                                                                                                                                                        PRIV ARGS
PROCESS_ERR
                                                                                                                                                                                                                                                                                                                                                   ******
                                                                                                                                                                                                                                                                                                                                           = 00000008
                                                                                                                                                                                   0433334
                                                                                                                                                                                                                         QUAD
                                                                                                                           000001AC RG
                                                                                                                                                                                                                         RECV
                                                                                                                                                                                                                                                                                                                                                   ******
                                                                                                                   000001AC RG
000001AC R
000001C4 RG
= 000001C5 RG
                                                                                                                                                                                                                       REST_REGS
SAVE_REGS
SCH$GL_CURPCB
SS$_NORMAL
SUCCESS
                                                                                                                                                                                   04
03
03
04
                                                                                                                            000001AD RG
                                                                                                                                                                                                                        SYS$CMKRNL
                                                                                                                  000001AD R
000001AD R
000001C6 RG
= 0000001C7 RG
000001AE RG
000001AE R
000001AE R
000001C9 RG
000001AF RG
000001AF RG
000001AF R
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000001AF R
                                                                                                                            000001AD
                                                                                                                                                                                                                                                                                                                                                                                       GX
                                                                                                                                                                                                                        SYS$CREMBX
                                                                                                                                                                                                                        SYS$CREPRC
                                                                                                                                                                                                                                                                                                                                                                                       GX
                                                                                                                                                                                                                         SYS$DELMBX
                                                                                                                                                                                                                                                                                                                                                                                       GX
COND4 C
COND4 CLEANUP
COND4 H
COND4 T
COND5 C
COND5 C
COND5 CLEANUP
COND5 H
COND5 T
COND5 T
COND5 TAB
CRENAME
CREPID
                                                                                                                                                                                                                         SYS$FAO
                                                                                                                                                                                   0433334
                                                                                                                                                                                                                        SYSSGETCHN
                                                                                                                                                                                                                         SYSSQIOW
                                                                                                                                                                                                                         SYS$SETPRN
                                                                                                                                                                                                                                                                                                                                                                                       GX
                                                                                                                                                                                                                         SYS$SETPRV
                                                                                                                                                                                                                                                                                                                                                                                       GX
                                                                                                                                                                                                                         TESTNUM
                                                                                                                                                                                                                                                                                                                                                   *******
                                                                                                                                                                                                                                                                                                                                                  00000000 RG
00000009 R
                                                                                                                                                                                                                        TEST_MOD_NAME_D
TEST_MOD_SUCC
TMD_ADDR
                                                                                                                                                                                   0433332300
                                                                                                                                                                                                                                                                                                                                                   *******
                                                                                                                                                                                                                                                                                                                                         000001AE RG
00000000 RG
000002B4 RG
000003F7 R
000003F8 RG
= 00000002 G
                                                                                                                                                                                                                        TM_CLEANUP
TM_SETUP
VERIFY
  CREPID
  CTL$GL_PHD
                                                                                                                                                                                                                         VERIFYX
                                                                                                                            ******
                                                                                                                    = 00000010
                                                                                                                                                                                                                       WORD CLEANUP
                                                                                                                                                                G
  DESC
 DIBSK_LENGTH
DIBSW_UNIT
                                                                                                                    = 00000074
                                                                                                                                                                                                                        WRITE_MSG2
                                                                                                                                                                                                                                                                                                                                                                                                          04
                                                                                                                    = 0000000C
                                                                                                                                                                    XXX
  EFLAG"
                                                                                                                            *******
  EXPV
                                                                                                                            *******
  FAO_DESC
                                                                                                                            *******
```

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes			
*ABS . \$ABS\$ RODATA RWDATA SATSSS41	00000000 (0.) 00000000 (0.) 00000084 (132.) 00000180 (432.) 000003F9 (1017.)	00 (0.) 01 (1.) 02 (2.) 03 (3.) 04 (4.)	NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR	CON ABS CON REL CON REL CON REL	LCL NOSHR NOEXE N LCL NOSHR EXE LCL NOSHR NOEXE LCL NOSHR NOEXE LCL NOSHR EXE	ORD NOWRT NOVEC BYTE RD WRT NOVEC BYTE RD NOWRT NOVEC LONG RD WRT NOVEC LONG RD WRT NOVEC BYTE

Performance indicators !

- 1				
	Phase	Page faults	CPU Time	Elapsed Time
	Initialization	135	00:00:00.11	00:00:00.31
-	Command processing Pass 1	135 269	00:00:00.71 00:00:07.47	00:00:01.40 00:00:14.13
-	Symbol table sort Pass 2	107 13	00:00:00.73 00:00:01.81	00:00:00.99
-	Symbol table output Psect synopsis output	13	00:00:00.08	00:00:00.13
	Cross-reference output Assembler run totals	564	00:00:00.00	00:00:00.00

The working set limit was 1500 pages.
39263 bytes (77 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 473 non-local and 23 local symbols.
515 source lines were read in Pass 1, producing 23 object records in Pass 2.
42 pages of virtual memory were used to define 32 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[SHRLIB]UETP.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)	8 2 19 29

864 GETS were required to define 29 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS41/OBJ=OBJ\$:SATSSS41 MSRC\$:SATSSS41/UPDATE=(ENH\$:SATSSS41)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0423 AH-BT13A-SE

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